PM SERIES POWERED MIXERS: PM500 PM600 PM500 RM PM600 RM





WARNING: DUE TO THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

Wharfedale Professional Limited Warranty: The PM Series of Powered Mixers are warranted to be clear of manufacturing or materials defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Professional dealer of distributor. Be aware that warranty details differ from country to country.

Unpacking: All Wharfedale Pro Products are fully checked before leaving the factory. After unpacking please inspect the units for any physical damage. Please retain the shipping carton if possible and internal packing material in case the unit needs to be returned. Please check as soon as possible that the unit is functioning. In the event of any damage please contact your dealer immediately so that a written claim for damages may be made.

!Warning – read all operating and service instructions that accompany this appliance! **!Varning** – läs alla användaroch serviceinstruktioner som medföljer enheten! **!Atenção** - leia todas as instruções de manutenção e de operação que acompanham este aparelho! **!AVVERTENZA** – Leggere attentamente le istruzioni per il funzionamento e la manutenzione fornite con l'unità! **!Aviso**: Lea todas las instrucciones de funcionamiento y de mantenimiento que se adjuntan a este aparato!Vaara – lue kaikki laitteen mukana toimitetut käyttö- ja huolto-ohjeet! **!Advarse**l – læs alle betjenings- og serviceanvisninger, der følger med produktet! **!Waarschuwing** – lees alle bedienings- en onderhoudsinstructies die bij dit apparaat horen! **!Vorsicht** - Lesen Sie diese Bedienungsanleitung sorgfältig durch! **!Attention**: Lisez attentivement les instructions avant d'utiliser ce produit!

FORSIKTIGHET: För att minska risken för elstötar bör man inte ta bort enhetens ytterhölje (eller det bakre skyddshöljet). Reparationer får bara genomföras av kvalificerade servicetekniker.

AVISO: Para reduzir o risco de choque eléctrico, não remova a tampa (ou a cobertura traseira). O usuário não deve efectuar a manutenção. Deve pedir aos técnicos qualificados em manutenção.

ATTENZIONE: Per ridurre il rischio di scosse elettriche, non rimuovere la copertura (o il pannello posteriore). Le operazioni di manutenzione devono essere eseguite esclusivamente da personale qualificato.

PRECAUCION: Con el fin de reducir el riesgo de sacudidas eléctricas, no desmonte la tapa (o la tapa posterior). El mantenimiento no deberá ser realizado por el usuario, sino por el personal de mantenimiento cualificado.

WARNING: To reduce the risk of electric shock, do not remove cover (or back). No user servicing to qualified service personnel.

VAROITUS: Tulipalo- ja sähköiskuvaaran vähentämiseksi älä irrota suojusta (tai takapaneelia). Älä huolla laitetta itse,anna huoltotyöt ammattitaitoisen huoltohenkilökunnan tehtäväksi.

FORSIGTIG: For at mindske risikoen for elektrisk stød må du ikke fjerne beklædningen (eller bagbeklædningen). Reparationer må kun udføres af kvalificeret servicepersonale.

PAS OP: Om de kans op elektrische schokken te minimaliseren, dient u de afdekklep (of achterkant) niet te verwijderen. Onderhoud dient alleen te worden uitgevoerd door gekwalificeerd personeel.

VORSICHT: Um diee Gefahr eines elektrischen Schlages zu vermeiden darf die Abdeckung nicht entfernt werden. Die Wartung des Gerätes sollte qualifiziertem Fachpersonal vorbehalten bleiben.

CAUTION: Pour réduire les risques d'électrocution, ne pas démonter le capot. La manipulation doit être effectuée par un personnel agréé.

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INTRODUCTION:

Congratulations on the purchase of your PM Series Powered Mixer from Wharfedale Professional. The PM Series is available in a choice of two models - the PM 500 and the PM 600. These two mixers have the same specifications except where noted in this manual. The PM Series powered mixers are available as standard in a carpet covered wooden box. The RM version is also available for both models. The RM version comes without the wooden box surround so that the unit can be rack mounted.

In order to get the most satisfaction from your PM mixers, please read this manual carefully.

GETTING STARTED:

- 1. Before you turn on the main power to the unit, ensure that the Master Output Control is in the OFF position.
- 2. If you need to connect or disconnect any cables or units, make sur the Power is OFF before doing so.
- 3. Check that the voltage of the unit matches the AC voltage you will be operating with.

FEATURES:

FEATURES:

PM600 and PM600 RM

- Five Mic and six line input sockets
- Channel six features extra Tape In button
- Digital Delay Section
- Three Band EQ in Master Section
- Tape In
- Record Out
- EFX Return
- EFX Send
- Power On/Off on front of unit for ease of use
- Parallel speaker outputs on rear of unit
- Main line output on rear of unit
- Built in 230 watt power amplifier
- Two band channel EQ
- XLR plus 1/4" input sockets
- Fan cooling system
- Thermal protection

PM500 and PM500 RM

- Four Mic and five Line input sockets
- Channel five features Tape In Button
- Main line output on rear of unit
- Two band Channel EQ
- XLR plus 1/4" input sockets
- Digital Delay Section
- Record Out
- Built in 120 watt power amplifier
- Thermal protection

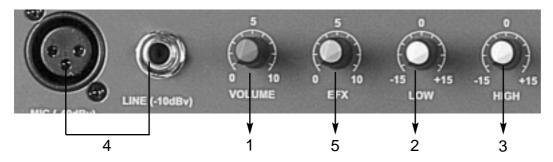
CHANNEL STRIP DESCRIPTION PM500:



- **1. VOLUME**: Determines volume level of the channel in the mix.
- 2. LOW EQ: The LOW EQ control gives 15db of boost or cut at 80Hz. By turning the knob to the right (boost) instruments such as guitars can be given more clarity, or vocals can be 'warmed'. Turning to the left (cut) will eliminate unwanted low frequencies such as those caused by close miking or excessive bass frequencies in instruments
- **3. HIGH EQ**: The High EQ control gives 15dB boost or cut at 12kHz. Turn to the right to add clarity to high frequency components such as percussion. By turning to the left, high frequencies such as 'hiss' are cut.
- **4. MIC/LINE INPUT**: Connection can be made to the MIC/LINE inputs with either XLR or 1/4" phono jack. This connection can be either a microphone or a line level signal.
- **5. EFX:** Use this control to determine the signal level to be sent to the built in digital delay effect control.

The LF control frequency has been carefully selected, allowing pleasing musical adjustment to vocals or instruments without losing their natural balance. The HF control is similarly designed to enable pleasing musical control without harshness or excessive mid range interference.

CHANNEL STRIP DESCRIPTION PM600:



- 1. **VOLUME**: Determines volume level of the channel in the mix.
- **2. LOW EQ:** The LOW EQ control gives 12dB of boost or cut at 100Hz. By turning the knob to the right (boost) instruments such as guitars can be given more clarity, or vocals can be 'warmed'. Turning to the left (cut) will reduce hum or unwanted background interference.
- **3. HIGH EQ**: The High EQ control gives 12dB boost or cut at 8kHz. Turn to the right to add clarity to high frequency components such as percussion. By turning to the left, high frequencies such as 'hiss' are cut.
- **4. MIC/LINE INPUT**: Connection can be made to the MIC/LINE inputs with either XLR or 1/4" phono jack. This connection can be either a microphone or a line level signal.
- **5. EFX:** Use this control to determine the signal level to be sent to the built in digital delay effect control.

MASTER SECTION DESCRIPTION PM500 AND PM600:



PM600

DIGITAL DELAY SECTION:

The built in digital delay will process the signal from the input channels and feed to the master output. The effects of digital delay are controlled by:

TIME: This adjusts the internal time of the delays. Turn to the right to increase the interval time between two delays, turn to the left to decrease.

REPEAT: This increases the repeat rate of the delays by turning the knob to the right.

VOLUME: This knob adjusts the mix level of the effect.



PM500



MASTER CONTROL PM500:

The Master Control adjusts the final level of the Main bus signal which is output to the speakers.



MASTER CONTROL PM600:

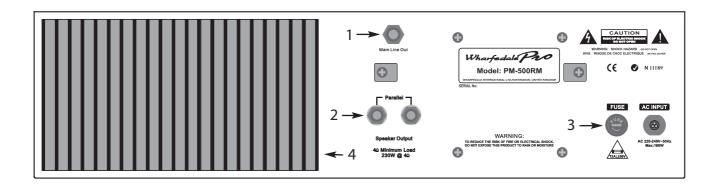
The Master Control on the PM600 also offers a three band (MID, LOW and HIGH) EQ section for tonal adjustment of the final mix.

TAPE IN AND REC OUT PM500 AND PM600:



The TAPE IN sockets allow cassette recorders or CD players to be added to the Main output. The RECORD OUTPUT provides a signal output to a cassette deck and home audio equipment. Sockets are RCA Phono.

REAR PANEL DESCRIPTION PM500:



PM500:

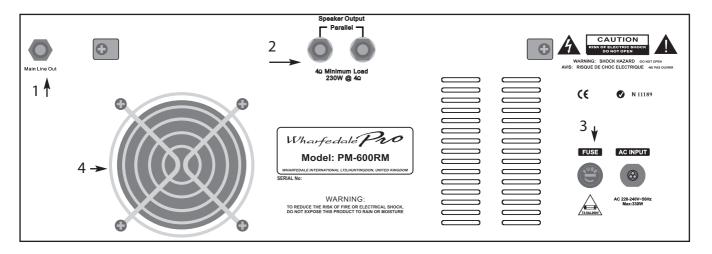
- **1. MAIN LINE OUT:** This unbalanced insertion point allows the main output to be sent to an external signal processor or power amplifier. The insert is a 1/4" phono jack socket which is not bypassed.
- **2. SPEAKER OUTPUT JACKS:** These outputs allow two speakers to be connected at the same time to the powered mixer. The total minimum load required is 4 Ohms. If the total load is less than 4 Ohms it may result in the mixer being damaged. The following guidelines should be noted:

When using two speakers at the same time, use 8-16 Ohms speakers.

When using one speaker only, use a 4-8 Ohms speaker.

- **3. FUSE:** Always ensure that the fuse is of the correct rating.
- **4. ALUMINIUM HEATSINK:** This allows a cooling airflow through the unit. Make sure that the heatsink is free from dust and there is sufficient room left at the back of the unit to allow the heatsink to work efficiently.

REAR PANEL DESCRIPTION PM600:



PM600:

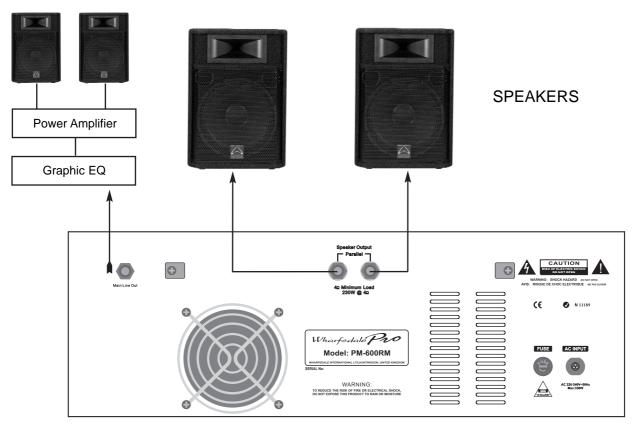
- **1. MAIN LINE OUT:** This unbalanced insertion point allows the main output to be sent to an external signal processor or power amplifier. The insert is a 1/4' phono jack socket which is normally bypassed.
- **2. SPEAKER OUTPUT JACKS:** These outputs allow two speakers to be connected at the same time to the powered mixer. The total minimum load required is 4 Ohms. If the total load is less than 4 Ohms it may result in the mixer being damaged. The following guidelines should be noted:

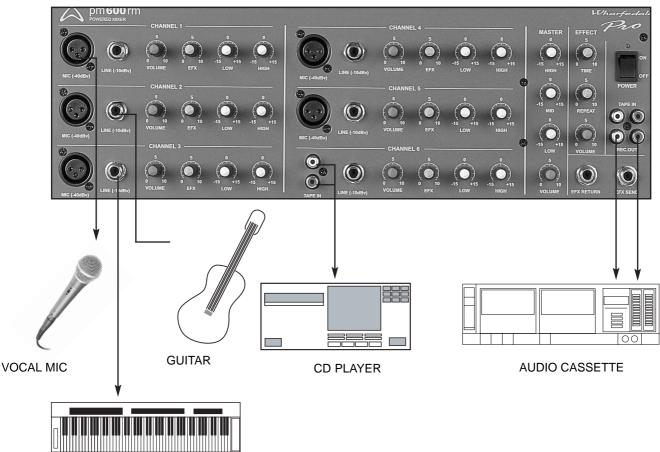
When using two speakers at the same time, use 8-16 Ohms speakers.

When using one speaker only, use a 4-8 Ohms speaker.

- 3. FUSE: Always ensure the fuse is of the correct rating.
- **4. COOLING FAN:** This creates a cooling airflow through the unit. Make sure that the fan is free from dust and there is sufficient room left at the back of the unit to allow the fan to work efficiently.

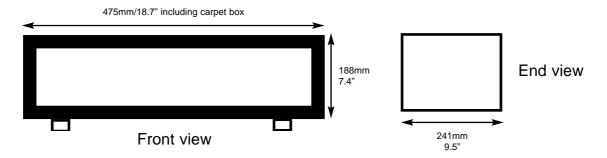
APPLICATIONS: PM600



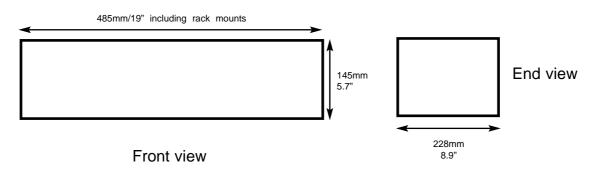


KEYBOARD

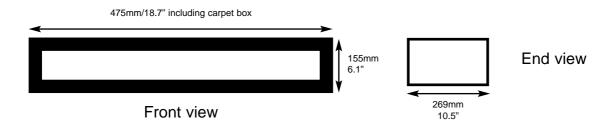
WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS DIMENSIONS: PM600



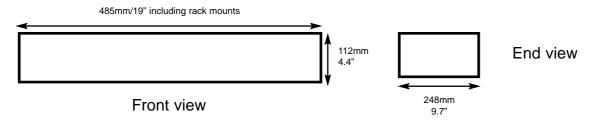
PM600 RM



PM500



PM500 RM



PM600 MODEL PM500 **POWER AMP - MAX OUTPUT IN WATTS 120 WATTS 230 WATTS** 4 OHMS **INPUTS BALANCED MIC** 4 5 **LINE CHANNELS** 5 6 **INPUT IMPEDANCE** LOW Z (BALANCED) **2KOHMS 2KOHMS** LINE 16KOHMS 16KOHMS **MAIN OUT UNBAL. TRS UNBAL. TRS** FREQUENCY RESPONSE (+/-3dB) 20 to 25KHz 20 to 25KHz **MAXIMUM CHANNEL GAIN** 40dB 40dB LOW Z (BALANCED) 20dB 20dB LINE **MAXIMUM INPUT LEVEL** 0dB 0dB LOW Z (MIC) +20dB +20dB LINE **MAXIMUM OUTPUT LEVEL** +18dBv +18dBv MAIN **RECORD OUT** +5dBv +5dBv **MASTER EQ** HI EQ NA 12Khz±12DB MID EQ NA 1Khz±12dB **LOW EQ** NA 80Hz±12dB **PROTECTION** THERMAL/LOAD THERMAL/LOAD **MASTER SECTION** YES **BUILT IN DIGITAL EFFECT YES THD LESS THAN 0.1% LESS THAN 0.1% CHANNEL EQUALISATION LOW EQ** 80Hz±15dB 100Hz±12dB HI EQ 12kHz±15dB 8kHz±12dB **POWER CONSUMPTION 120 WATTS 230 WATTS POWER REQUIREMENTS 160 WATTS 330 WATTS** 1/4" JACK 1/4" JACK SPEAKER CONNECTORS **WEIGHT** PM600 11.48KG/24.7lbs 9.32KG/20.5lbs PM500 PM500RM 7.6KG/16.7lbs PM600RM 9.72KG/21.4lbs **DIMENSIONS**

475MM X 269MM X 155MM

PM500

PM600

PM500RM

PM600RM

18.7" x 10.5" x 6.1"

475MM X241MM X 188MM 18.7" x 9.5" x 7.4" 485MMX248MMX112MM 19" X 9.7" X 4.4" 19" X 8.9" X 5.7" 485MMX228MMX145MM

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